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PATENT AND TRADEMARK OFFICE

Applicants: J. Joyce et al.

Serial No.:

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1815

Filed:

March 22, 1995

Examiner:

For:

RECOMBINANT HUMAN PAPILLOMA-

Salimi, A.

VIRUS TYPE 18

The Honorable Commissioner of Patents and Trademarks The Drawing Review Branch Washington, D.C. 20231

SUBMISSION OF FORMAL DRAWINGS

Dear Sir:

Enclosed please find seven pages of formal drawings for the above referenced case.

Respectfully submitted,

Joanne M. Giesser Reg. No. 32,838

Attorney for Applicants

Merck & Co., Inc. P.O. Box 2000 Rahway, NJ 07065

Date: January 13, 1998

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	CCA	TTG	GAT	ATT	TGT	CAG	TCT	ATT	TGT	AAA	TAT	CCT	GAT 1	[AT]	ΓΤΑ	CAA	ATG	TCT	GCA	GAT	
221	Р	L	D	I	С	Q	S	I	C	K	Y	Р	D	Υ	L	Q	M	S	Α	D	240
			73	0		7	40			750			760)		7	70			780	
	CCT	TAT			TCC	ATG	TTT	TTT	TGC	TTA	CGA	CGT	GAGC	:AGC	TT:	TTT	GCT	AGGG	CAT	TTT	
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361	F	K	-		S			V		E		U			۲			Q		_	380	
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			121				220			1230		4.07	124	_	***	12		A C A	_	260		
										CCCG											420	
401	Ε	D	• •	N	F			Р		Р		ŀ			L			T	Y	• •	420	
			127				280			1290			130		CCA	13		A A T	_	320		
										CAA											440	
421	F	V	•	S	٧		I	ı		Q		U			Ρ	A	_	N		D	440	
			133				340			350		***	136		4.4.0	13		TTO	_	380		
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FIG. 1B

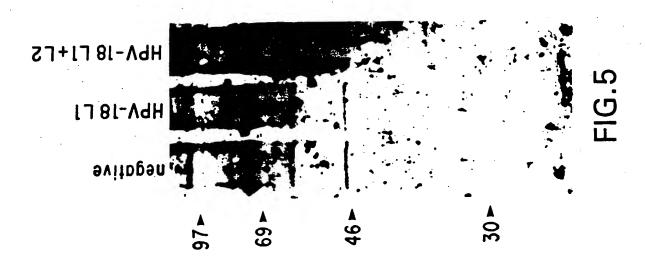
AMINO ACID VARIATIONS IN L1 PROTEIN OF HPV18	IATIONS IN L	1 PROTEIN (JF HPV18		
		AMINO A	AMINO ACID POSITION IN L1	ON IN L1	
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#23 (CLINICAL PENNSYLVANIA)	1	ı	∝		œ

FIG.2

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	ATO	GTA	TCC	CAC	CGT	GCC	GCA	CGA	CGC	CAAA	CGG	GC1	TCGG		NCT		TTA	TAT			
1	М	٧	S	Н	R	Α	Α	R	R	. K	R	Α	S	٧	T	_	L	Υ	K	-	20
			70				80			90			100			_	10			120	
	TGT	AAA	CAA	TCT	GGT	ACA	TGT	CCA	TCT	GAT	GTT	GTT	AAT/	\AG(GTA	GAG	GGC	ACC	ACC	STTA	
21	. C	K	Q	S	G	T	C	. Р	S	. D	٧	V	N	K	٧	E	G	T	T	L	4
			13	0		1	40			150			160)		1	70			180	
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41		D	Κ			Q							F		G		L	G	I	G	6
	•	-	19	0		2	00			210			220)		2	30			240	
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61	T		S		T	G	G			G				L	G	G		S	N	Ţ	.80
01	•	_	250		•		60			270			280)		2	90	•		300	•
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81		_	D			P				P			I		Р	٧		Р	T	D	100
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	CCA	TOT			ΔΩΔ	-		GAG	GAC			GTT	GTTA		rca(CCTA	AGC		
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101	•	3	370	•	•	_	80	_	U	390		•	400	•	9	_	10	•	••	420	
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121	T		T	G	T	S		F	D		T		A		T	T	T	P		v	140
121	1	1	430		'	_	40	•	U	450		J	460		•	•	70	•	•	480	7-10
	TTC	CAT			CCT			۸۲۲	TCT			ΉΤ	TCCA		ነ የ			۸۲۲	ΤΔΔ	-	
141	L		ATO,			S		T		V		Ί	S		T		F	T	N	P	160
141	L	υ	490		r	_	3 00	•	J	510		1	520		•		30	•	11	540	100
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161																olia V	S	G	N	V	180
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201	Α	S	_	-	i			Ł			5	5	T		L			٧			220
			670			68				69 0			700				10			720	
	GTA	GCA											CAAG								
221	٧	Α	G	P	R	L	Y	S	R	Α	Y	Q	Q	٧	S	٧	Α	N	P	E	240
			730)		74	10			750			760			77	70			780	
	TTT	CTT	ACAC	GT(CCAT	rcc1	CT.	ΙTΑ	ATT	ACCI	ΓΑΤ	GAC	AACC	CGG	CCT	TTO	GAGO			GAC	
241	F	L	T	R	P	S	S	L	I	T	Y	D	N	P	Α	F	Ε	P	٧	D	260
			790	1		80	00		į	810			820			83	30			840	
	ACT	ACA	TTAA	CA	TTTO	SAGO	CTO	CGTA	AGT.	AAT(STT	CCT	GATT	CAG	ATT	TT	ATG(ATA	TT.	ATC	
261																				I	280

·	850					٤	160			870			88	30		8	190		900			
	CGT	TT	CADA	TAGG	CCT	GCT	TTA	VACA		CAGG				GTG	CGC	TTT	AGT	AGA	TTA	NGGT		
281				R	P	Α	L	T	S	R	R	G	T	` V	R	F	S	R	L		300	
201			91	0		g	20			930			94	0	•	9	50			960		
•	CAA	VAG(GCA	ACT	ATG	TTT	ACC	CGT	AGO	CGGT	ACA	CA	ATA	GGT	GCT	AGG	GTT	CAC	TTI	TAT		
301			Α		M	F	Ţ	R	S	G	T	Q	I	G	Α	R	٧	Н	F	Υ	320	
	Ť	•	97			9	080			990			100	0		10	10		_	.020		
	CAT	GA T	TATA	VAGT	CCT	ATT	GCA	CCC	CTCC	CCCA	GAA	TAT	TATT	GAA	CTG	CAG	CCT	TTA	GT/	TCT		
321				S						P								L		S	340	
		•	103				40			050			106				70 ⁻	٠,	_	080		
	GCC	CAC	GAG	GAC	CAAT	GGC	TTE	TTT	GAT	FATA	TAT	GC/	AGAT	GAC	ATA	GAC	CCT	GCA	ΛTC	CCT		
341	Α	T	Ε	D	N	G	L	F	D	I	Y	Α	D	D	I	D	P	Α	М	Р	360	
			109				00			110			102				30			.040		
	GTA	\CC/	ATCO	CGT						GCA								ATA	TCA	TCT		
361	٧	Ρ	S	R	P	T	T	S		Α		S			S			I	-	S	380	
			115	_			60			170			118	_			90		_	200		
	GCC	TCT	TCC	TAT	AGT					CCCT												
381	Α	S	S	Υ	S					P		T			W	-	V	P	•	Υ	400	
			121				20			230			124	-			50		_	260		
																				ACA	400	
401	T	G		D	I					T					P	_	٧	5	Р	T	420	
			127	•						290			130				10	T00		320		
										ATA											4.40	
421	Α	Р			T	-		1				G	T		Υ	•	L	W	P	L	440	
			133				40			350		000	136		***		70	000	_	380		
										CGT											460	
441	Y	Y	F	I	P	K	K	R	K	R	٧	P	Y	t	F	Α	D	G	r	٧	460	
	000		T40																			
461	GCG			1																	463	
461	Α	Α	*																		403	

FIG. 3B



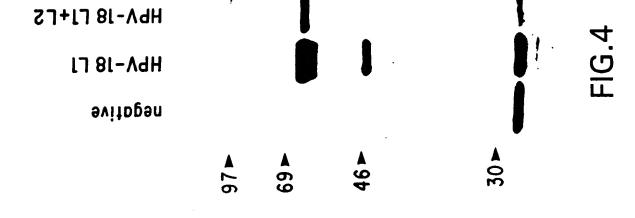




FIG.6